Maths

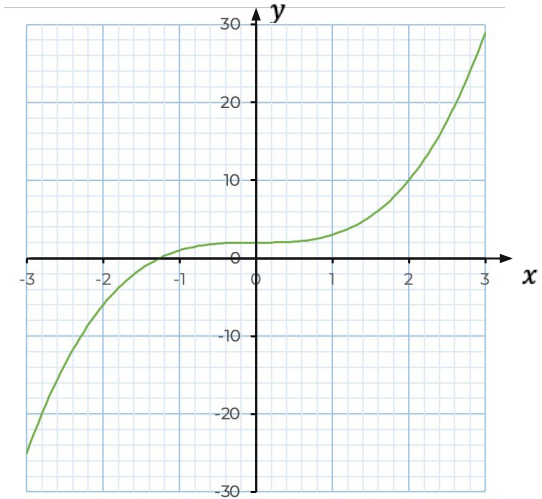
Use Cubic Graphs to Solve Equations

Miss Davies

Please note some slides do have colour font on them

Use cubic graphs to solve equations

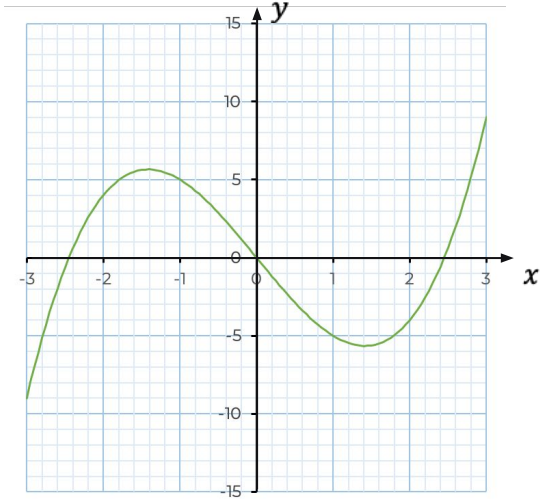
1. Here is the graph of $y = x^3 + 2$



Use the graph to estimate the solutions to each equation.

a) $x^3 + 2 = 0$ b) $x^3 + 2 = 8$

2. Here is the graph of $y = x^3 - 6x$



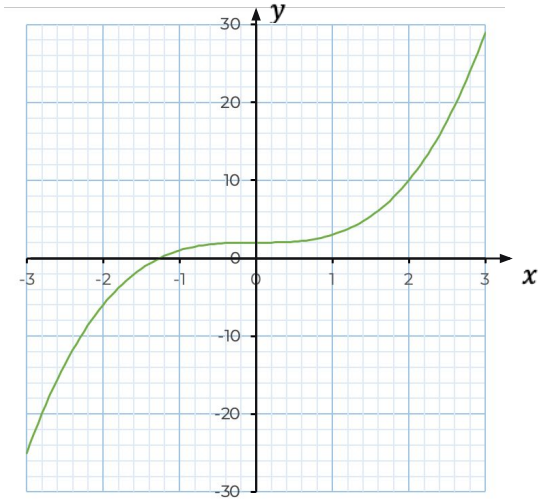
Use the graph to estimate the solutions.

a) $x^3 - 6x = 0$ b) $x^3 - 6x = -4$

Answers

Use cubic graphs to solve equations

1. Here is the graph of $y = x^3 + 2$

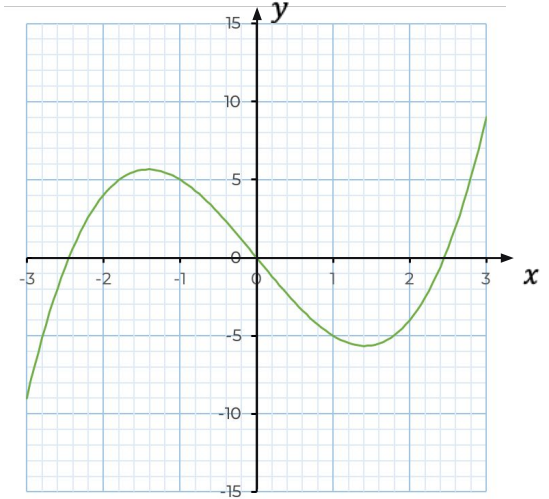


Use the graph to estimate the solutions to each equation.

a) $x^3 + 2 = 0$ $x = 1.3$

b) $x^3 + 2 = 8$ $x = 1.8$

2. Here is the graph of $y = x^3 - 6x$



Use the graph to estimate the solutions.

a) $x^3 - 6x = 0$
x = 0 or 2.4 or -2.4

b) $x^3 - 6x = -4$
x = 0.7 or 2.0 or -2.7